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Chernyak, G. Ya.

Dielectric methods of investigation of  
vaniya vlastivostei prirody Moscow,  
1500 copies printed. Head of  
Sekt. Nauk. i tekhnichesk. A.  
Chernyak, G. Ya. Author A.

Series note: Vsesoyuznyy nauchno-tekhnicheskiy institut po issledovaniyam  
inzhenernoy geologii Trudy. N.

TOPIC TAGS: geophysics, moisture, rock, soil structure, well

PURPOSE AND COVERAGE: This book represents an attempt to systematize and generalize cumulative experience in the development of methods of analyzing certain practical problems. The book has been dedicated to problems of calculating the shear strength and porosity of soils.

Dielectric methods of investigation of  
vaniya vlastivostei prirody Moscow,

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inzhenernoy geologii Trudy. N.

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tion. Brief information is presented concerning of wells. The author expresses Mathematical Sciences S. M. Sheynman, to Candidate of Technical Sciences N. I. Ogil'vi, and to Engineers V. N. Chubarov and Shashurin.

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Literature - 2 026

SIS CODE: SS

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OTHER:

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CIA-RDP86-00513R000308610015-7"

30759  
S/141/61/004/003/010/020

Theory of the quantum amplifier ... E192/E582

where  $\xi, \eta, \zeta$  are real orthogonal axes which are suitably oriented with respect to the axes of the crystal and external magnetic field  $H_0$ .

$m$  and  $n$  are quantum numbers of the resonance energy levels of an ion (whose transition frequency is  $\omega_{mn}$ ), and

$a$  is a real parameter.

The resonance portion of the mean magnetic moment induced by the alternating magnetic field  $H(t)$  is:

$$M(t) = \operatorname{Re} \left\{ d_{nm} (d_{mn} H^*) Q_s e^{-i\omega t} \right\} \quad (2)$$

where  $Q(\omega)$  is a factor determining the shape of the line. It is seen that the quantity  $M$  is determined by the projection of the vector  $H^*$  on the direction  $d_{mn}$ . The field  $H^*$  is orthogonal to  $d_{mn}$  and determines two independent non-resonance

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E192/E382

Theory of the quantum amplifier

polarizations of the alternating magnetic fields

$$H_\eta = 0, \quad H_\zeta = iaH_\xi \quad (3)$$

$$H_\eta \neq 0, \quad H_\zeta = H_\xi = 0 \quad (4)$$

The average power absorbed in a unit volume is (Ref. 5 - L.D. Landau, Ye.M. Lifshits - Electrodynamics of Solid Media, GITTL, Moscow, 1957):

$$\bar{P} = \frac{i\omega}{16\pi} \left( \mu_{ik}^* - \mu_{ki} \right) H_i H_k^*$$

and since the permeability tensor is in the form:

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E192/E382

Theory of the quantum amplifier .....

$$\{u_{ik}\} = \begin{pmatrix} 1 + i\alpha a^2 & 0 & -\alpha a \\ 0 & 1 & 0 \\ \alpha a & 0 & 1 + i\alpha \end{pmatrix} \quad (5)$$

where:

$$i\alpha = 4\pi \left| d_{mn}^L \right|^2 \alpha \quad (6) \quad \checkmark$$

it follows that:

$$\bar{p} = \frac{\omega \alpha^2}{8\pi} \left| H_\zeta - i\alpha H_\xi \right|^2, \quad \alpha' = \operatorname{Re} \alpha \quad (7)$$

The ratio  $\bar{p}$  is a maximum when:

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Theory of the quantum amplifier E112/E582

$$H_\eta = 0, \quad H_\xi = i\alpha H_\zeta \quad (8)$$

from which it is seen that the magnetic-field polarization is of the non-resonance type. In quantum amplifiers with a travelling wave (Ref. 8 - De Grasse, IRE, Wescon Conv. Record, August, 1958; Ref. 9 - De Grasse, Schulz-Du Bois, Scovill, BSTJ, 38, 305, 1959), amplification can be achieved by using delay systems producing group or phase velocity delays. The dependence of the amplifier on the phase velocity in the case of surface waves is investigated. In the symmetrical surface H-wave, propagating along the axis  $z$ , above a plane  $x = 0$ , it is assumed that the components  $E_y$ ,  $H_x$  and  $H_z$  are finite and that  $k_x = i\beta$ ,  $k_y = 0$  and  $k_z = \gamma$ . The permeability of the system is  $\mu = 1$  and its permittivity is  $\epsilon$ . Consequently, the following expressions are true:

$$\gamma^2 - \beta^2 = k^2, \quad k = \omega \sqrt{\epsilon/c} \quad (9)$$

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Theory of the quantum amplifier... El 92/E382

By introducing a normalized phase velocity  $u = k/\gamma = v_{\phi} \sqrt{\epsilon/c}$ ,

$\beta$  can be expressed by:

$$\beta = \frac{\sqrt{1 - u^2}}{|u|} \omega$$

By considering the equation  $\operatorname{div} H = 0$  it follows that:

$$H_x = i g H_z$$

where:

$$g = \gamma/\beta = \operatorname{sgn} u / \sqrt{1 - u^2} \quad (\operatorname{sgn} u \pm u / |u|) \quad (10)$$

The electric and magnetic fields are related by:

$$E_y = -Z(\omega) H_z \quad (11)$$

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E: 41/61/004/003/010/020  
E382

Theory of the quantum amplifier... E1/2/E382  
where  $Z(u)$  is the surface impedance of the directing plane,  
which is assumed to be purely reactive. The gain or  
amplification parameter of the system can be expressed by:

$$\gamma'' = \frac{Y}{u} \left[ (a \operatorname{sgn} u + \sqrt{1 - u^2})^2 \cos^2 \Theta + (a \sqrt{1 - u^2} + \operatorname{sgn} u)^2 \sin^2 \Theta \right] \quad (14)$$

where  $\Theta$  is the angle between the axes  $\xi$  and  $x$ . The dependence of the gain  $\gamma''$  on the phase-velocity for the direct and reflected waves for the case defined by:

$$\Theta_0 = \pi/2, \quad g_0 = a, \quad u_0 = \sqrt{\epsilon_0 - 1/a} \quad (16a)$$

is illustrated in Fig. 3. In the case of an isotropic surface impedance, when the longitudinal components of the travelling wave, expressed by:

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E192/E382

Theory of the quantum amplifier

$$\begin{aligned} E_z &= \sin(\delta y - \varphi) A e^{-\beta x + i(\gamma z - \omega t)} & (19) \\ H_z &= \sqrt{\epsilon} B \cos(\delta y - \varphi) A e^{-\beta x + i(\gamma z - \omega t)} \end{aligned}$$

where  $A$  and  $\varphi$  are arbitrary constants and the normalized quantities:

$$d = \delta/k, \quad b = \beta/k, \quad h = \gamma/k = 1/u$$

are related by:

$$h^2 - 1 = b^2 - d^2$$

(20)

the gain is expressed by:

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E192/E382

Theory of the quantum amplifier....

$$\gamma'' = \frac{\chi}{u} \left( 1 - \frac{u^2}{1 + d^2 u^2} \right) f(a, g, \Theta)$$

where:

$$g = (1 + d^2 u^2) [1 + (d^2 - 1)u^2]^{-1/2} \operatorname{sgn} u \quad (25)$$

From this it is seen that the direct and reflected non-symmetrical waves are amplified in an identical manner. In the case of anisotropy surface impedance, where the boundary condition is expressed by:

$$E_y = -Z_2 H_z, \quad E_z = Z_1 H_y \quad (27)$$

the amplification can be expressed by:

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F192/E382

Theory of the quantum amplifier...

$$\gamma'' = \frac{\chi}{u} \frac{d^2}{1-d^2} \left\{ \left[ a \sqrt{1 - (1-d^2)u^2} + \operatorname{sgn} u \right]^2 \cos^2 \Theta + \right. \\ \left. + \left[ a \operatorname{sgn} u + \sqrt{1 - (1-d^2)u^2} \right]^2 \sin^2 \Theta \right\} \quad (36).$$

This is similar to Eq. (14). There are 4 figures, 4 tables and 15 references: 6 Soviet-bloc and 9 non-Soviet-bloc. The four latest English-language references mentioned are: Ref. 1 - I.J. Rabi, N.F. Ramsey, J., Schwinger - Rev. Mod. Phys., 26, 167, 1954; Ref. 6 - N. Bloembergen - Phys. Rev., 104, 324, 1956; Ref. 8 - quoted in text, also Ref. 9.

ASSOCIATION: Institut radiofiziki elektroniki AN UkrSSR  
(Institute of Radiophysics and Electronics of the AS UkrSSR)

SUBMITTED: August 1, 1960

*Card 10/11*

ACCESSION NR: AP4024480

S/0141/64/007/001/0181/0182

AUTHORS: Kontorovich, V. M.; Chernyak, G. Ye.

TITLE: Line strength of magnetic-dipole transition in the hyperfine structure of the atom

SOURCE: IVUZ. Radiofizika, v. 7, no. 1, 1964, 181-182

TOPIC TAGS: atomic spectrum, hyperfine structure, magnetic dipole transition, line strength, hydrogen, deuterium, nitrogen 14, spontaneous transition, interstellar medium, radioastronomy, nitrogen concentration, interstellar nitrogen concentration

ABSTRACT: After pointing out that the line strength given by I. S. Shklovskiy (Kosmicheskoye radioizlucheniye, GITTL, M., 1956, Ch. 4) leads in the case of nitrogen to appreciable disparity with the correct results, the authors recalculate the line strength for hydrogen, deuterium, and N<sup>14</sup>. The lines in question describe spontaneous

Card 1/3

ACCESSION NR: AP4024480

transitions between components of the hyperfine structure of atoms in the interstellar media, and are of importance to radio astronomy. The calculations show that the accumulation time for the nitrogen line is about one order of magnitude larger than indicated by Shklovskiy. However, should the real nitrogen concentration be larger than presently assumed, the results might change. "The authors are grateful to S. Ya. Braude and I. S. Shklovskiy for useful discussions." Orig. art. has: 3 formulas and 1 table.

ASSOCIATION: Institut radiofiziki i elektroniki AN UkrSSR (Institute of Radiophysics and Electronics, AN UkrSSR)

SUBMITTED: 22Apr63 DATE ACQ: 15Apr64 ENCL: 01

SUB CODE: PH, AS NR REF Sov: 002 OTHER: 005

Card 2/3

ACCESSION NR: АР4024480

ENCLOSURE: O/

Элемент	Переход $F-F-1$	Длина волны $\lambda$	Сила линии	
			по формуле (3)	по [7]
Водород	$1 \rightarrow 0$	21 см	3	3
Лейтерий	$3/2 \rightarrow 1/2$	91,6 см	5,3	6
Золото	$5/2 \rightarrow 3/2$ $3/2 \rightarrow 1/2$	11,47 $\mu$ 19,14 $\mu$	14,4 13,3	60 30

Line strengths for hydrogen, deuterium, and N<sup>14</sup> as obtained in this work and as given elsewhere

1 - Element, 2 - Transitions, 3 - Wavelength, 4 - by formula (3),  
 5 - by ref. [3], 4-5 - Line strength, 6 - Hydrogen, 7 - Deuterium  
 8 - Nitrogen

Card 3/3

DEDOK, T.A.; CHERNYAK, G.Ye.

Carboniferous sediments in the Upper Taymyra Valley, based  
on field data obtained in 1958. Inform.biul.NIIGA no.11:20-22  
'58. (MIRA 12:5)  
(Upper Taymyra Valley--Geology, Stratigraphic)

CHERNYAK, G.Ye.; DEDOK, T.A.

Recent data on the upper Paleozoic in the Tareya Valley (central Taymyr).  
Sbor. st. po paleont. i biostrat. no.13:20-28 '59.

(MIRA 13:3)

(Tareya Valley--Geology, Stratigraphic)

CHERNYAK, G.Ye.

Middle and upper Carboniferous stratigraphy of the Taymyr Peninsula.  
Sbor.st.po paleont.i biostrat. no.18:16-22 '60. (MIRA 13:8)  
(Taymyr Peninsula--Geology, Stratigraphic)

CHERNYAK, G.Ye.

Stratigraphic system of lower Carboniferous deposits of the  
Taymyr Peninsula. Trudy NIIGA 111:11-23 '60. (MIRA 14:7)  
(Taymyr Peninsula—Geology, Stratigraphic)

DEDOK, T.A.; CHERNYAK, G.Ye.

Lower Carboniferous brachipods of the Taymyr Peninsula.  
Trudy NIIGA 111:52-81 '60. (MIRA 14:7)  
(Taymyr Peninsula—Brachipoda, Fossil)

SHVEDOV, N.A.; USTRITSKIY, V.I.; ~~CHERNYAK~~, G.Ye.; GERKE, A.A.; SOSIPATROVA, G.P.

New stratigraphic scheme of upper Paleozoic sediments in the Taymyr Peninsula. Sbor.st.po paleont. i biostrat. no.24:12-15 '61.

(MIRA 15:2)

(Taymyr Peninsula—Geology, Stratigraphic)

USTRITSKIY, Vitaliy Ivanovich; CHERNYAK, Georgiy Yevseyevich;  
POPOV, Yu.N., doktor geol.-mineral.nauk,red.; DESHALYT, M.G.,  
vedushchiy red.

[Biostratigraphy and brachiopods of the Upper Paleozoic of  
the Taymyr Peninsula.] Biostratigrafiia i brakhiopody verkhnego  
paleozoia Taimyra. Leningrad, Gostoptekhizdat, 1963. 138 p.  
(Leningrad. Nauchno-issledovatel'skii institut geologii arktiki.  
Trudy, vol. 134) (MIRA 17:6)

BOGUSH, O.I.; GERASIMOV, Ye.K.; CHERNYAK, G.Ye.; YUFEREV, O.V.

Krestyakh conglomerates at the mouth of the Lana River  
and their analogies. Dokl. AN SSSR 153 no.1:166-169 N '63.  
(MIRA 17:1)

1. Institut geologii i geofiziki Sibirskogo otdeleniya  
AN SSSR. Predstavлено академиком А.А. Трофимуком.

BOGUSH, Oksana Ivanovna; GERASIMOV, Yevgeniy Konstantinovich;  
YUFEREV, Oleg Vyacheslavovich. Prinimali uchastiye:  
DUBATOLOV, V.N.; CHUDINOVA, I.I.; IVANOVSKIY, A.B.;  
YELKIN, Ye.A.; CHERNYAK, G.Ye.; FURSENKO, A.V., otv. red.

[Lower Carboniferous of the lower Lena Valley] Nizhnii  
karbon nizov'ev Leny. Moskva, Nauka, 1965. 64 p.  
(MIRA 18:7)

1. Chlen-korrespondent AN Belorusskoy SSR (for Fursenko).

CHERNYAK, I., dotsent

Plants as indicators. Nauka i zhizn' 30 no.9:11 S '63.  
(MIRA 16:10)  
1. Kafedra khimii Orekhovo-Zuyevskogo pedagogicheskogo instituta.

YASHCHERITSYN, P.I., dotsent, kand.tekhn.nauk; CHERNYAK, I., red.;  
STEPANOVA, N., tekhn.red.

[Quality of surfaces and precision of parts machined by  
abrasive tools] Kachestvo poverkhnosti i tochnost' detalei  
pri obrabotke abrazivnymi instrumentami. Minsk, Gos.izd-vo  
BSSR, Red.nauchno-tekhn.lit-ry, 1959. 230 p. (MIRA 13:1)  
(Grinding and polishing)

SUL'SKIY, Khaim Davydovich; CHERNYAK, I., red.; STEPANOVA, N., tekhn.red.

[Technical norms for machining in mechanical shops] Tekhnicheskoe normirovanie stanochnykh rabot v mekhanicheskikh tsekhakh. Minsk, Gos.izd-vo BSSR. Red.nauchno-tekhn.lit-ry, 1959. 234 p. (MIRA 13:1)  
(Factory management)

ZAKHAROV, V.K., prof.; TRUILL<sup>t</sup>, O.A., kand.sel'skokhoz.nauk; MIROSHNIKOV,  
V.S., kand.sel'skokhoz.nauk; YERMAKOV, V.Ye., kand.sel'skokhoz.  
nauk; CHERNYAK, I., red.; STEPANOVA, N., tekhn.red.

[Timber valuation manual] Lesotaksatsionnyi spravochnik. Pod  
obshchey red. V.K.Zakharova. Minsk, Gos.izd-vo BSSR, 1959.  
300 p.  
(Forests and forestry--Valuation)

MININ, Aleksey Nikolayevich, dotsent, kand.tekhn.nauk; CHERNYAK, I., red.;  
STEPANOVA, N., tekhn.red.

[Manufacture of compressed waste-wood products and materials]  
Proizvodstvo izdelii i materialov iz izmel'chennoi drevesiny  
pressoaniem. Minsk, Gos.izd-vo BSSR, Red.nauchno-tekhn.lit-ry,  
1960. 181 p. (MIRA 13:6)  
(Wood, Compressed)

CHERNYAK, I.

Carrying out decisions of the congress. MTO 2 no.2:26-27 F  
'60. (MIRA 13:5)

1. Zamestitel' predsedatelya TSentral'nogo pravleniya Nauchno-tekhnicheskogo obshchestva neftyanoy i gazovoy promyshlennosti.  
(Petroleum industry)

RUDITSYN, M.N.; ARTEMOV, P.Ya.; LYUBOSHITS, M.I.; CHERNYAK, I., red.;  
STEPANOVA, N., tekhn. red.

[Reference manual on the strength of materials] Spravochnoe  
posobie po soprotivleniiu materialov. Pod obshchey red. M.N.  
Ruditsyna. 2. ispr. izd. Minsk, Gos.izd-vo BSSR. Red.  
nauchno-tekhn.lit-ry, 1961. 515 p. (MIRA 15:1)  
(Strength of materials)

SHAPIRO, David Kopelevich; ZAKHARICH, Filipp Fedorovich; GOLOMSHTOK,  
Moisey Markovich; CHERNYAK, I., red.; STEPANOVA, N., tekhn.  
red.

[Vegetable and mushroom canning at home] Konservirovanie  
ovoshchей i gribov v domashnikh usloviakh. Izd.2., perer. i dop.  
Minsk, Gos. izd-vo BSSR. Red. nauchnotekhn. lit-ry, 1961. 105 p.  
(MIRA 14:8)  
(Vegetables, Canned) (Mushrooms, Edible—Preservation)

s/093/61/000/002/003/003  
A051/A129

AUTHOR: Chernyak, I.

TITLE: The fourth plenum of the central administration of the NTO of the petroleum and gas industry

PERIODICAL: Neftyanoye Khozyaystvo, no. 2, 1961, 67-68

TEXT: The fourth plenum of the central administration of the NTO of the petroleum and gas industry took place in Moscow on November 22 and 23, 1960, and was dedicated to organizational problems of the Society for fulfilling the resolutions adopted at the CC CPSU Plenum in July, 1960. About 300 members of various research and educational institutions took part. Vice-President of the USSR, Topchiyev, spoke on the problems facing science in connection with fulfilling the July Plenum resolutions. Special attention is being given to supplying the country with electric power by the cheapest possible means, to converting other forms of energy into electrical energy and to finding the suitable conditions for sending a man into space. A study is being made on the possibilities of creating a stable state for the high-temperature phase of thermo-nuclear synthesis. It is expected that by the end of the current 1959/67 Seven-Year Plan the fuel

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A051/A129

The fourth plenum of the central administration ...

output will total 1 billion tons in the USSR. Stress was placed on the success accomplished in the field of semi-conductors, the physics of plasma, leading to new means for converting thermal to electrical energy without mechanical transformations. A. V. Topchiyev also spoke on the prospects of developing the petroleum and gas industry, as well as that of chemical synthesis. Geological prospecting for new oil and gas deposits has been intensified and charts are being drawn up giving a prognostic evaluation of the oil-bearing territories. The problem of drilling at a depth of 10 - 15 km was raised. The use of diamond drills and their advantages were discussed. Achievements in elevating the stability of oil-well walls by artificial means have been made by the IGIIRGI AS USSR. Attempts are being made to use compressed or high-pressure gases to dislodge the oil from the layers. Studies are being made on the most rational use of gaseous fuel. In this connection research is being carried out on the theory of stability and structure of the gas flame, the aerodynamics of gas flows, etc., the construction of vapor-gas turbine installations. Synthetic gases are being produced by the gasification of heavy liquid fuels, primarily of sulfurous fuel oils. The paper also dealt with the research efforts on oil refining in connection with chemical synthesis. The Institut organicheskoy khimii (Institute of Organic Chemistry) at the Bashkiria branch of the AS USSR is handling the problem

Card 2/3

S/093/61/000/002/003/003

The fourth plenum of the central administration ... A051/A129

of high-sulfurous petroleum. Another pending problem is the separation of gaseous and liquid hydrocarbons needed for the synthesis of polymer materials. The AS USSR institutes, the AS Azerbaiydzhan SSR institutes and the institutes of the State Committee for Chemistry at the USSR Council of Ministers are dealing with the subject of divinyl production from butene and isoprene from isopentane by one-stage synthesis. Research workers are devoting special attention to the formation of regulating processes of oxidation of paraffins, olefins and aromatic hydrocarbons, based on the study of chain reactions. Certain institutes are studying the production of new more effective demulsifiers for the destruction of petroleum emulsions. The plenum adopted the resolution to maintain close contact between the work of the AS USSR workers and those of the NTO organizations of the petroleum and gas industry. Strict control should be held over completed research projects. Other papers were presented by: S. M. Akhmedzade, (AzNTO NGP) U. I. Kinzikeyeva, (Bash. NTO NGP), A. I. Fedorchenko, (Stalingrad NTO). K. I. Ponamerov, (TatNTO) presented a paper on "The experience in creating an experimental complex-automatic oil refinery in the Zay-Karatay area".

Card 3/3

ZAKHAROV, Vasiliy Kirillovich, prof.; TRULL', Oleg Antonovich; MIROSHNIKOV,  
Vladimir Semenovich; YERMAKOV, Viktor Yevseyevich; CHERNYAK, I.,  
red.; NOVIKOVA, V., tekhn. red.

[Forest valuation handbook] Lesotaksatsionnyi spravochnik. Pod  
obshchei red. V.K.Zakharova. Izd.2., ispr.i dop. Minsk, Gos.  
izd-vo BSSR. Red. nauchno-tekhn.lit-ry, 1962. 367 p.  
(MIRA 15:6)

(Forests and forestry--Valuation)

BERSHADSKIY, A.L., prof.; CHERNYAK, I., red.; STEPANOVA, N.,  
tekhn. red.

[Applying increased speeds of cutting to sawmilling; high-speed sawing with reduced power consumption] Primenenie po-vyshennykh skorostei rezaniia v lesopilenii; skorostnoe pilenie s ponizhennym energopotrebleniem. Minsk, Gos.izd-vo BSSR, 1952. 34 p.  
(MIRA 16:8)

(Saws)

CHERNYAK, I.

All-Union volunteer workers' inspection of the fulfilment of scientific-research work and the introduction of and technical achievements into the national economy. Neft. khoz. 41 no.7:  
71 Jl'63  
(MIRA 17:7)

CHERNYAK, I.

Results of the Third Public Inspection of the Fulfillment of  
Plans for Scientific-Research Work and the Introduction of the  
Advancements of Science and Technique by the Organizations of  
the Scientific and Technical Society of the Petroleum Industry.  
Neft. khoz. 43 no.6:65-67 Je '65. (MIRA 18:7)

1. CHERNYAK, I. A.
2. USSR (60C)
4. School Excursions
7. Excursions to local industries., Khim. v shkole, No. 5, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

CHERNYAK, I.A. (g. Kolomna).

Interesting, experimental chemistry problems. Khim. v shkole no. 3:65-68  
My-Je '53. (MLRA 6:7)  
(Chemistry--Problems, exercises, etc.)

CHERNYAK, I.A.

Apparatus with inner electric heating. Khim.v shkole 10 no.2:48-51  
Mr-ap '55. (MIRA 8:7)  
(Chemical apparatus)

CHERNYAK, I.A.

Apparatus for demonstrating the electric conductivity of melted  
batches and solutions. Khim.v shkole 10 no.3:64 My-Je '56.  
(MLRA 9:8)  
(Chemical apparatus)

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CIA-RDP86-00513R000308610015-7

CHERNYAK, I.A.

CHERNYAK, I.A.; PAPRITS, A.G. (Moskva)

An apparatus for obtaining high-temperature flames in burners.  
Khim.v shkole 12 no.6:35-40 N-D '57. (MIRA 10:12)  
(Chemical apparatus)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

CHERNYAK, I.A. (Moskva)

Providing more training for chemical laboratory assistants in schools. Khim. v shkole 13 no.5:79 S-0 '58. (MIRA 11:9)  
(Chemistry--Study and teaching)

CHERNYAK, I.A.

Apparatus for demonstrating experiments on the gasification of solid fuel. Khim. v shkole 15 no.5:67-69 S-O '60. (MIRA 13:10)

1. Orekhovo-Zuyevskiy pedagogicheskiy institut.  
(Coal gasification) (Carbon monoxide)  
(Chemistry--Experiments)

CHERNYAK, I.A.

Manufacturing the details and "units" during the construction  
of chemical apparatus. Khim. v shkola 16 no.5:70-73 S-0 '61.  
(MIRA 14:9)

1. Pedagogicheskiy institut, Orekhovo-Zuyevo.  
(Chemical apparatus)

CHERNYAK, I. A.; Prinimal uchastiye: RUDERMAN, R. O.

Electric glass cutter for tubes and cylindric containers.  
Khim. v shkole 17 no.4:67-68 J1-Ag '62. (MIRA 15:10)

1. Pedagogicheskiy institut, g. Orekhovo-Zuyevo.

(Chemical laboratories—Equipment and supplies)  
(Glass cutting)

CHERNYAK, I.A.

Conducting a school Olympiad on the topic "Do you know the origin of the names of chemical elements?" Khim. v shkole 18 no.1:70-72 Ja-F '63.  
(MIRA 16:4)

1. Pedagogicheskiy institut, g. Orekhovo-Zuyevo.  
(Chemistry—Examinations, questions, etc.)

CHERNYAK, I.G.

Liquidation of a permanent focus of malaria at the Pronkino peat works in Yartsevo District. Med.paraz. i paraz. bol. 25 no.3:266-268 J1-S '56. (MLRA 9:10)

1. Zav. parazitologicheskim otdelom Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii (glavnnyy vrach L.I.Rakityanskaya)  
(MALARIA, prevention and control,  
in Russia (Rus))  
(MOSQUITOES,  
eradication in Russia (Rus))

CHERNYAK, I.G.

Group outbreak of trichinosis in one of the districts of Smolensk Province. Zhur.mikrobiol., epid.i immun. 33 no.4:122-123 Ap '62.  
(MIRA 15:10)

1. Iz Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.  
(VSKHODY DISTRICT--TRICHINA AND TRICHINOSIS)

CHERNYAK, I.L.

All-Union public review of the fulfillment of plans for scientific research work and the introduction of the achievements of science and technology into the national economy. Khim. i tekhn. topl i masel 9 no.8:1-4 Ag '64.  
(MIRA 17:10)

1. Uchenyy sekretar' smotrovoy komissii TSentral'nogo pravleniya Nauchno-tehnicheskogo obshchestva neftyanov i gazovoy promyshlennosti.

CHERNYAK, I.G.

Group outbreak of trichiliasis in a district of Smolensk Province. Med.paraz. i paraz.bol. 33 no.3:355-356 My-Je '64.  
(MIRA 18:2)

1. Parazitologicheskiy otdel Smolenskoy oblastnoy sanitarno-epidemiologicheskoy stantsii.

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7

CHERNYAK, I. L.

N/5  
735.5  
.052

Neftebazy (Petroleum Bases) (Moskva?) Gostoptekhizdat, 1947.  
1 v. (Various paging) illus., diagrs. tables.  
Photostat copy incomplete.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

PA 25/49T93

CHERNYAK, I. L.

USSR/Petroleum Industry  
Petroleum Pipe Lines

Jun 48

"Studies on Hydraulic Resistances in Special  
Crimped Gasoline Resistant Hoses and Locking  
valves," I. L. Chernyak, 4 pp

"Neft Khoz" No 6

Mathematical formulas for determining  
resistance in pipes manufactured especially  
for transporting oil at oil fields and re-  
fining establishments. Constant studies under  
way to determine best pipe to cut resistance  
to minimum, decreasing pumping losses.

25/49T93

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7

CHERETAK, I. L.

Safety technique in the transportation and storing of petroleum and gas. Moscow, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-naftlivnoi lit-ry, 1952. 216 p. (53-24202)  
TN871.047

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

CHERNYAK, I.L.

Subject : USSR/Chemistry

AID P - 840

Card 1/1 Pub. 78 - 25/26

Author : Lavrov, D. P., Engineer

Title : Better qualified elucidation of fire prevention technique

Periodical : Neft. khoz., v. 32, #9, 85-96, S 1954

Abstract : Criticism of I. L. Chernyak's book Safety Technique of Transportation and Storage of Oil and Gas.

Institution: None

Submitted : No date

CHERNYAK, I.L., KLEYMENOVА, K.F., redaktor; POLOSINA, A.S., tekhnicheskij  
redaktor.

[Safety measures for the handling of petroleum products; manual  
for agricultural workers] Tekhnika bezopasnosti pri obrashchenii s  
nefteproduktami; pamyatka dlia rabotnikov sel'skogo khoziaistva.  
Moskva, Gos.nauchno-tekhn.izd-vo neftianoi i gorno-toplivnoi lit-ry,  
1955. 42 p.  
(Petroleum products--Safety measures)

(MLRA 8:4)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7

CHERNYAK, I. L.

"Workers Safety Requirements and Safety Precautions at Petroleum Bases"  
page 177 of the book Petroleum Bases and Pipe Lines, Gostoptekhizdat,  
1956.

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

- CHERNYAK, I.I., inzhener; MERKULOV, N.S. inzhener; NOVIKOVA, M.M.,  
vedushchiy redaktor; MUKHINA, E.A., tekhnicheskiy redaktor

[Safety instructions for handling ethylated gasoline  
when receiving, storing, removing and delivering it at  
enterprises of the Chief Administration of the Supply of  
Petroleum and By-products] Instruktsia po meram bezopasnosti  
pri obrazhchenii s etilirovannym benzinom pri ego priemke,  
khranenii, otpuske i perekachke na predpriatiakh Glavnftesbyta.  
Moskva, Gos. nauchno-tekhn. izd-vo neft. i gorno-toplivnoi lit-ry,  
1956. 102 p.  
(Gasoline--Safety measures)

CHERNYAK, Il'ya L'vovich; MATSKIN, Leonid Arkad'yevich; YERSHOV, P.R.,  
redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Operation of petroleum tank farms] Ekspluatatsiia neftebaz.  
Moskva, Gos.nauchno-tekh. izd-vo neftianoi i gorno-toplivnoi  
lit-ry, 1956. 390 p.  
(MLRA 9:4)  
(Petroleum--Storage)

GRIGORYAN, Grigoriy Markovich, doktor tekhnicheskikh nauk; ALEKSIN, Aleksandr Georgiyevich, inzhener; ZAKS, Saveliy L'vovich, kandidat tekhnicheskikh nauk; KUZIN, Mikhail Ivanovich, inzhener; POLOZKOV, Vladimir Tikhonovich, kandidat tekhnicheskikh nauk; SUKHANOV, Vasiliy Pavlovich, inzhener; SULTANOV, D.K., inzhener; STREL'CHUK, Nikoley Antonovich, inzhener; CHERNYAK, Il'ya L'vovich, inzhener; KUSHNAREV, V.P., retsen-zent; ROYZEN, I.S., otvetstvennyy redaktor; ZAMARAYEVA, K.M., vedushchiy redaktor; KOVALEV, A.A., vedushchiy redaktor; SAVINA, Z.A., vedushchiy redaktor; TROFIMOV, A.V., tekhnicheskiy redaktor

[Safety engineering and fire prevention in the petroleum industry]  
Tekhnika bezopasnosti i protivopozharnaya tekhnika v neftianoi promyshlennosti. Moskva, Gos. nauchno-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, 1956. 508 p.  
(Petroleum industry--Safety measures)  
(Fire prevention) (MLRA 10:1)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7

ЧЕРНЫЙ, ИЛ'Я ЛЬВОВИЧ

CHERNYAK, Il'ya L'vovich; NOVIKOVA, M.M., vedushchiy red.; MUKHINA, E.A.,  
tekhn.red.

[Safety methods and fire prevention measures in the transportation  
and storage of petroleum, petroleum products and gas] Tekhnika  
bezopasnosti i protivopozharnaya tekhnika pri transporte i khiranenii  
nefti, nefteproduktov i gaza. Izd.2-oe, perer.i dop. Moskva, Gos.  
nauchno-tekhn.izd-vo neft.i gorno-toplivnoi lit-ry, 1957. 243 p.

(MIRA 10:12)

(Petroleum industry--Safety measures) (Gas, Natural)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

CHERNYAK, I.

In the Scientific and Technical Society of the Petroleum Industry.  
(MLRA 10:3)  
Gaz.prom. no.2:38-39 P '57.  
(Gas, Natural)

CHERNYAK, I.

All-Union conference on further development of the gas industry.  
(MLRA 10:5)  
Gaz.prom. no.4:36-39 Ap '57.  
(Gas manufacture and works)

*CHERNYAK, I.L.*

SONIN, S.D., prof.; SELETSKIY, R.A., dots., kand.tekhn.nauk; KILYACHKOV,  
A.P., dots., kand.tekhn.nauk; CHERNYAK, I.L., gornyy inzh.

Analysis of certain basic factors hampering the growth of labor  
productivity in Donets Basin mines. Ugol' 32 no.12:9-13 D '57.  
(MIRA 11:1)

(Donets Basin--Coal mines and mining)

"APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7

CHEPNYAK, I.

Brief news. Gaz. prom. no.3:60-61 Mr '58.  
(Petroleum industry--Congresses) (MIRA 11:3)

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

CHERNYAK, I.L.

Scientific and Technical Society of the Petroleum Industry, Gas.  
prom. no.5:55 My '58. (MIRA 11:5)  
(Petroleum industry)

CHEONYAK, I.

All-Union conference on measures for combating losses of petroleum,  
petroleum products, and gas. Neft. khoz. 36 no.5:70-71 My '58.

(Petroleum industry) (Gas, Natural)

(MIRA 11:6)

11(0)

sov/93-58-10-18/19

AUTHOR: Chernyak, I.

TITLE: In the Scientific and Technical Society of the Petroleum Industry  
(V nauchno-tehnicheskem obshchestve neftyanoy promyshlennosti)

PERIODICAL: Neftyanoye khozyaystvo, 1958, Nr 10, p 71 (USSR)

ABSTRACT: On August 8, 1958 the Presidium of the VTsSPS (All-Union Central Council of Trade Unions) announced that the organizations of the NTO NP (Scientific and Technical Society of the Petroleum Industry) will hold elections from September through December 20, 1958. The first conference of the Society will take place in Baku from the 16 through the 18 of December. In view of the May Resolution of the Communist Party to accelerate the development of the chemical industry the author asks the members of the Society to elect well qualified leaders and to include into the organization many engineers, technicians, innovators, and scientific workers.

Card 1/1

CHERNYAK, I.

In the Scientific and Technical Society of the Petroleum Industry.  
Gaz. prom. no. 10:56 O '58. (MIRA 11:11)  
(Petroleum industry)

CHERNYAK, I.

Raising important questions. Okhr.truda i sots.strakh. no.4:55-56  
O '58.  
(MIRA 12:1)

1. Zamestitel' predsedatelya TSentral'nogo pravleniya nauchno-  
tekhnicheskogo otdela neftyanoy promyshlennosti.  
(Petroleum industry--Safety measures)

CHERNYAK, I. L.

MATSKIN, L.A.; KOVALENKO, K.I.; BABUKOV, V.G.; KONSTANTINOV, N.N.;  
PONOMAREV, G.V.; FAL'CHIKOV, G.N.; PELENICHKO, L.G.; SHAMARDIN,  
V.M.; GLADKOV, A.A.; BRILLIANT, S.G.; SHEVCHUK, V.Ya.; SOSHCHEIN-  
KO, Ye.M.; ALEKSANDROV, A.M.; BUNCHUK, V.A.; KRUPENIK, P.I.;  
MAYEVSKIY, V.Ya.; YELSHIN, K.V.; GAK, Kh.A.; POTAPOV, G.M.;  
KARDASH, I.M.; STEPURU, S.I.; KAPLAN, S.A.; SELIVANOV, T.I.;  
YEREMENKO, N.Ya.; ZHUZH, A.D.; USTINOV, A.A.; GIRKIN, G.M.;  
VOLOBUYEV, P.P.; CHERNYAK, I.L., nauchnyy red.; DESHALYT, M.G.,  
vedushchiy red.; GENNAD'YEVA, I.M., tekhn.red.

[Combating losses of petroleum and petroleum products; materials  
of the All-Union Conference on Means of Combating Losses of  
Petroleum and Petroleum Products] Bor'ba s poteriami nefti i  
nefteproduktov; po materialam Vsesoiuznogo soveshchaniia po bor'be  
s poteriami nefti i nefteproduktov. Leningrad, Gos.nauchno-tekhn.  
izd-vo neft. i gorno-toplivnoi lit-ry, 1959. 157 p. (MIRA 13:2)

1. Nauchno-tehnicheskoye obshchestvo neftyanoy i gazovoy pro-  
myshlennosti.

(Petroleum industry)

CHERNYAK, I.

First Congress of the Scientific and Technical Society of  
the Petroleum and Gas Industry. Gaz. prom. 4 no.7:53-54  
Jl '59. (MIRA 12:10)

1.Zamestitel' predsedatelya TSentral'nogo pravleniya Nauchno-  
tekhnicheskogo otdela neftyanoy i gazovoy promyshlennosti.  
(Petroleum industry--Congresses)

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77554  
SOV/65-60-2-14/15

AUTHOR: Chernyak, I. L.

TITLE: Conference on the Complex Automation of Petroleum Processing

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, Nr 2,  
pp 70-71 (USSR)

ABSTRACT: The conference was held November 24 to 29, 1959, at the Moscow (Lyubertsy) Petroleum Processing Plant. It was convened by the central administration of the Scientific and Technical Division of the Petroleum and Gas Industry; the USSR Gosplan; the GNTK USSR; the RSFSR Gosplan; the GNTK RSFSR; the Central Committee of the Professional Union of the Petroleum and Chemical Industry; and the Moscow Petroleum Processing Plant. About 380 people from the concerned industries attended. Fifteen reports, eight communications, and more than thirty speeches were heard. Complex automation has not yet been achieved at any Soviet petroleum processing plant and individual

Card 1/3

Conference on the Complex Automation of  
Petroleum Processing

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SOV/65-60-2-14/15

process automation lags so far behind that over 25% of the total labor force is occupied with secondary operations such as measuring, sample taking, and control. The chief obstacle to automation is the lack of necessary equipment. The conference held the following to be imperative: coordination of all research; and development and production of automation equipment to be vested in the State Committee of Automation and Machinery Construction of the USSR Council of Ministers. This committee should prepare a plan of research and development for 1960-1965, by not later than the first quarter of 1960, and have it considered by the USSR Gosplan to insure its fulfillment. The special position of petroleum processing plants in regard to automation should be recognized. Automation departments of institutes designing petroleum processing plants should be enlarged. The Special Designs Office of the ANN or the RSFSR Ministry of Construction should be expanded as the leading organization developing special automation

Card 2/3

Conference on the Complex Automation of  
Petroleum Processing

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SOV/65-60-2-14/15

equipment for petroleum processing plants. Automation departments at various petroleum processing plants should be improved and expanded. A comprehensive catalog of automation equipment should be issued, as well as informational literature on Soviet and foreign experience.

Card 3/3

CHERNYAK, I.L.

Controlling losses of petroleum products when discharging them  
from tanks. Neft. khoz. 38 no.9:59-61 S '60. (MIRA 13:9)  
(Tank cars)

CHERNYAK, I.L.

Activity of local organizations of the Scientific and Technical Society of the Petroleum and Gas Industries. Neft. khoz. 38 no.12:  
60-62 D '60. (MIRA 14:4)  
(Petroleum industry)

SONIN, S.D., prof.; SHEYKHET, M.N., dots.; CHERNYAK, I.L., inzh.

Controlling the heaving of ground in drift mining by means of  
blasting using borehole charges. Shakht. stroi. 5 no. 3:8-10  
Mr '61. (MIRA 14:2)

1. Moskovskiy gornyy institut.  
(Blasting) (Mining engineering)

CHERNYAK, I.L.

All-Union Conference of Workers of the Petroleum Refining Industry.  
Khim. i tekhn. topl.i masel '7 no.1:71-72 Ja '62. (MIRA 15:1)  
(Petroleum--Refining)

CHERNYAK, I.L., gornyy inzh.

Basis for a possibility of anchoring heaving soil types in the  
Moscow Basin. Nauch. trudy MGI no.38:33-43 '61. (MIRA 15:10)  
(Moscow Basin--Clay--Testing) (Mine roof bolting)

CHERNYAK, I.L., gornyy inzhener

Using models to study soil heaving in mine workings and controlling it with anchor piles. Nauch. trudy MGI no.38:45-60 '61.

(MIRA 15:10)  
(Moscow Basin---Soil mechanics) (Mine roof bolting)

CHERNYAK, I.L., gornyy inzh.; LUKICHEV, V.S., gornyy inzh.

Predicting soil heaving in workings of Moscow Basin mines. Nauch.  
trudy MGI no.38:97-103 '61. (MIRA 15:10)  
(Moscow Basin—Soil mechanics)

CHERNYAK, I.L., gornyy inzh.

Testing means of controlling soil heaving employing wooden anchor piles and reinforced concrete anchors in mines Nos. 37 and 38 of the Stalinogorskugol' Trust. Nauch. trudy MGI no.38:75-82 '61.  
(Moscow Basin—Mine roof bolting) (MIRA 15:10)

CHERNYAK, I.L.

Public inspection of the carrying out of plans. Neftianik 7  
no.9:22-23 S '62. (MIRA 16:7)

1. Uchenyy sekretar' smotrovoy komissii TSentral'nogo pravleniya  
Nauchno-tekhnicheskikh obshchestv neftyanoy i gazovoy  
promyshlennosti.

(Petroleum industry)

MATSKIN, Leonid Arkad'yevich; CHERNYAK, Il'ya L'vovich; NOVIKOVA,  
M.M., ved. red.; VORONOVA, V.V., tekhn. red.

[Operation of tank farms] Ekspluatatsiya neftebaz. Izd.2.,  
perer. i dop. Moskva, Gostoptekhizdat, 1963. 455 p.  
(Petroleum--Storage) (MIRA 16:12)

SONIN, S.D., prof.; CHERNYAK, I.L., kand. tekhn. nauk; MYASNIKOV,  
Yu.G., inzh.

Control of ground swelling by means of underground  
explosion charges. Ugol' 38 no.12:38-39 '63.

1. Moskovskiy institut radioelektroniki i gornoj  
elektromekhaniki. (MIRA 17:5)

NEDIKOV, Vladimir Mikhaylevich; CHERNYAK, I.M., red.; VASIL'YEV, Yu.A.,  
red.izd-va; GVIPTS, V.I., tekhn.red.

[Supervisor of technical information in the machine shop]  
Tekhnicheskii informator tsekha. Leningrad, Leningr. Dom nauchno-  
tekhn.propagandy, 1961. 22 p. (MIRA 14:12)  
(Technology---Information services)

CHERNYAK, I.M., aspirant

Experimental study of the natural frictional vibrations of  
the brake shoes of the rolling stock. Trudy RIIZHT no.44:  
139-155 '64.  
(MIRA 19:1)

KARMINSKIY, D.E., doktor tekhn. nauk, prof.; SERGEYEV, G.M., starshiy  
prepodavatel'; CHERNYAK, I.M., inzh.; ABAZIYEV, S.I., inzh.

Studying the sticking of the wheels of all-metal cars. Trudy  
RITZHT no.44:156-168 '64.  
(MIRA 19:1)

28020-66 EWT(1)/EWA(h)  
ACC NR: AP6005300

(A)

SOURCE CODE: UR/0413/66/000/001/0038/0038

INVENTOR: Ginzburg, A. I.; Lemekhov, V. N.; Chernyak, I. N.

ORG: none

TITLE: A rectified voltage regulator. Class 21, No. 177470

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1966, 38

TOPIC TAGS: voltage regulator, electronic feedback, electronic rectifier

ABSTRACT: This Author's Certificate introduces a rectified voltage regulator which contains power and analog rectifiers connected to the output of an ac voltage regulator. The device also contains a unit which compares the analog rectifier voltage with a standard. This comparator acts on the control circuit of the ac regulator. Stability under varying load conditions is improved by using current feedback from the power rectifier load to control a variable resistor connected in parallel with the comparator.

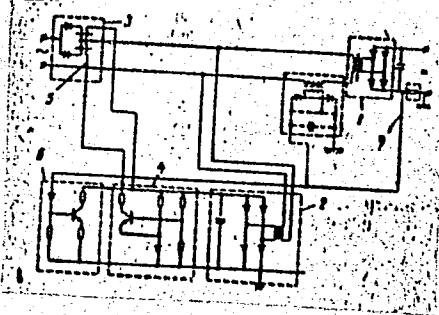
UDC: 621.316 : 722.1 : 621.314.632

Card 1/2

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CIA-RDP86-00513R000308610015-7

ACC NR: AP6005300



1--power rectifier; 2--analog rectifier;  
3--ac voltage regulator; 4--voltage comparat-  
or; 5--ac regulator control unit; 6--vari-  
able resistor; 7--feedback circuit

SUB CODE: 09/

SUBM DATE: 05May64

Card 2/2

APPROVED FOR RELEASE: 06/12/2000

CIA-RDP86-00513R000308610015-7"

MOROZOWA, Yelena Nikanorovna; CHERNYAK, I.S., dotsent, red.; KUBNEVA,  
M.M., tekhn.red.

[Technical-information and bibliographical centers in the U.S.S.R.  
and their publications; a report read at the Leningrad House of  
Scientific and Technical Propaganda in the seminar for workers  
providing technical information] Tekhniko-informacionnye i bibli-  
ograficheskie tsentry v SSSR i izdavaemye imi materialy; stenogramma  
doklada, prochitannogo v LDNTP na zaniatiakh seminara dlja ra-  
botnikov sluzhb tekhnicheskoi informatsii. Leningrad, 1959. 22 p.

(MIRA 13:4)

(Information services) (Bibliography (Theory, methods, etc.))

ALYUSHINSKIY, Vladimir Ivanovich; CHERNYAK, I.S., dotsent, red.;  
BLUMENAU, D.I., izd.red.; BELOGUROVA, I.A., tekhn.red.

[Organization of outside scientific and technical information  
in scientific research institutes and designing offices] Orga-  
nizatsiya vneshnei nauchno-tehnicheskoi informatsii v nauchno-  
issledovatel'skikh institutakh i konstruktorskikh biuro. Lenin-  
grad, 1960. 22 p. (MIRA 14:1)  
(Technology--Information services)

SHEKHURIN, Diodor Yefremovich; KATS, Yekov L'vovich; PETROV, Petr  
Ivanovich; CHERNYAK, I.S., dotsent, red.; SHILLING, V.A.,  
izd.red.; GVIHTS, V.L., tekhn.red.

[Participation of the section of scientific and technical  
information in the work of the scientific research institute]  
Uchastie otdela nauchno-tehnicheskoi informatsii v razra-  
botkakh nauchno-issledovatel'skogo instituta. Leningrad, 1960.  
(MIRA 14:1)  
27 p.  
(Technology--Information services)

PETROVA, Zinaida Mikhaylovna; CHERNYAK, I.S., dcts., red.; KUBNEVA, M.M.,  
tekhn. red.

[Organizational forms and methods of work in the technical information sections of research institutes] Organizatsionnye formy i metody raboty po tekhnicheskoi informatsii v nauchno-issledovatel'skikh institutakh. Leningrad, 1959. 38 p.  
(Technology—Information services)

GLOVIN, Grigoriy Ivanovich; CHERNYAK, I.S., dots., red.; VASIL'YEV,  
Yu.A., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[The role and place of a scientific and technical library in  
information work] Rol' i mesto nauchno-tehnicheskoi biblioteki  
v informatsionnoi rabote. Leningrad, 1961. 20 p.

(MIRA 15:5)

(Scientific libraries)

(Technical libraries)

NEDIKOV, Vladimir Mikhaylovich; BOYEV, Yuriy Petrovich; CHERNYAK, I.S.,  
red.; GRIGOR'YEVA, I.S., red. izd-va; BELOGUROVA, I.A., tekhn.  
red.

[Plant council of innovators] Zavodskoi Sovet novatorov, Lenin-  
grad, 1962. 20 p. (MIRA 15:3)  
(Leningrad—Diesel engines—Technological innovations)

CHERNYAK, I. V.

Agricultural Implements

Heavy meadow drag for ridding meadows of mounds. Korm. baza 2 no. 8, '51

Monthly List of Russian Accessions, Library of Congress, July 1952. Unclassified.